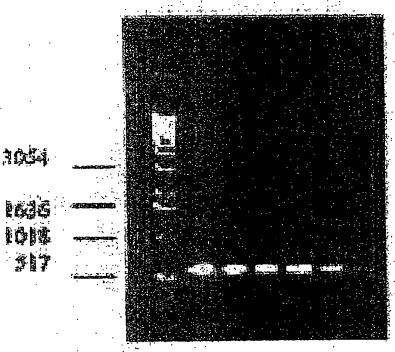


M 1 2 3 4 5 6



implification of the beginning tilmed Lubranaut (DDS) DNA analyzant on agurose pels. Lika was extructed from partials automate automate political in related from partials automate automate political as described in related to and rections. Line 1, 1 kg Lancer (Orber ERI); thus 1, 10 pp. 1784; those 2, 1 og 04 DNA; thus 3, 10 pg. 1784; those 2, 1 og 04 DNA; thus 6, 1 fg 04 DNA; thus 6,



Probe: Ld Ind kDNA

Human DNA: 100 ng

Primer Set: Ldl1 & 2

Amt. Ld Ind DNA: 2 5 5 0

0.87 —

(Kb)

0.6

1 2 3 4

FIG. 2. Sensitivity of PCR amplification of Leishmania kDNA followed by Southern blot analysis. The PCR contained 100 ng of human genemic DNA and the indicated amount of total DNA from L. dono-unit DD8. The PCR product was probed with parasite kDNA and exposed for about 1 h. Lane 4 represents a PCR containing only human DNA as a control.



M bp

1 2 3 4 5 6 7 8 9 10 1 11 12 13

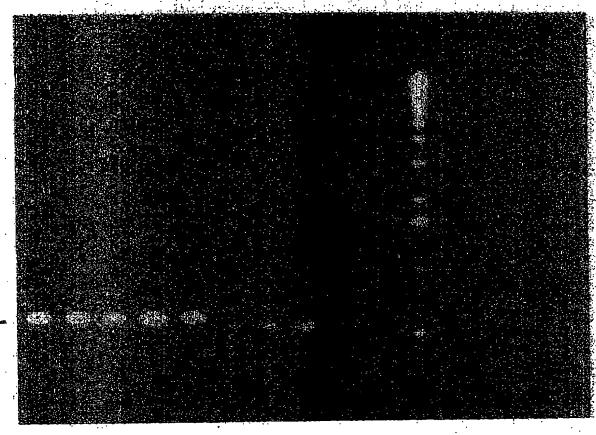


FIG. 3. Amplification of parasite UNA from various strains and plates of Leishmania. DNA (1 ng) isolated from parasite cultures was bjected to PCR and analyzed. Lane 1, L. donovani AG83; lane 2, donovani DD8; lane 3. L. donovani HCB8; lane 4, L. donovani CB6; lane 5, L. donovani HCB 7 (RKDL origin); lane 6, L. donovani i: lane 7, L. donovani WK684; lane 8 L. donovani infantum; lane 9, mopica WR683; lane 10, L. major LV 39, lane M, 1-kb ladder, lane 1, Phosmodium; lane 12, M. leprae: lane 13, M. suberculosis.



M 1 2 3 4 5 6 7 8 9 10 11

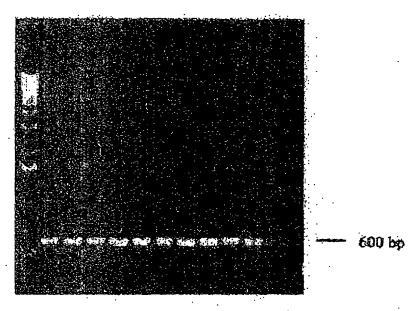


FIG. 4. DNA amplification from recent field isolates of KA and KDL. DNA (1 ng) extracted from cultures of parasite isolates was sed for PCR amplification. Lancs: M, 1-kb ladder; 1, KA-1; 2, KA-2; KA-3; 4, KA-4; 5, KA-5, 6, PK-1; 7, PK-2; 8, PK-3; 9, PK-4; 10, PK-5; 1. isolate from a patient with cutaneous leishmaniasis.



M 1 2 3 4 5 6 7

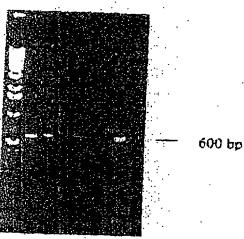


FIG. 5. POR assay with clinical samples of KA and PKDL. DNA (100 ng) isolated from clinical samples was used for PCR amplification. Lane M. 1-kb ladder, lane 1 kA (bone marrow); lane 2 kA (blood); lane 3, malaria (blood), lane 4, tuberculosis (blood); lane 5, control from the area of endemicity (blood); lane 6, PKDL (skin lesion); lane 7, leprose desion).

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Sequence of PCR products with DNA isolated from L. donovani DD8 strain, isolates and clinical samples of KA and PKDL.